

10/552014

JC12 Rec'd PCT/PTC 12 OCT 2005

SEQUENCE LISTING

<110> Takeda Pharmaceutical Company Limited

<120> A Screening Method

<130> 3172WOOP

<150> JP 2003-122464

<151> 2003-04-25

<160> 15

<210> 1

<211> 453

<212> PRT

<213> Human

<400> 1

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Leu Ile Leu Val Tyr Leu Ile Ile Phe Val Met Gly Leu Leu Gly Asn  
35 40 45  
Ser Ala Thr Ile Arg Val Thr Gln Val Leu Gln Lys Lys Gly Tyr Leu  
50 55 60  
Gln Lys Glu Val Thr Asp His Met Val Ser Leu Ala Cys Ser Asp Ile  
65 70 75 80  
Leu Val Phe Leu Ile Gly Met Pro Met Glu Phe Tyr Ser Ile Ile Trp  
85 90 95  
Asn Pro Leu Thr Thr Ser Ser Tyr Thr Leu Ser Cys Lys Leu His Thr  
100 105 110  
Phe Leu Phe Glu Ala Cys Ser Tyr Ala Thr Leu Leu His Val Leu Thr  
115 120 125  
Leu Ser Phe Glu Arg Tyr Ile Ala Ile Cys His Pro Phe Arg Tyr Lys  
130 135 140  
Ala Val Ser Gly Pro Cys Gln Val Lys Leu Leu Ile Gly Phe Val Trp  
145 150 155 160  
Val Thr Ser Ala Leu Val Ala Leu Pro Leu Leu Phe Ala Met Gly Thr  
165 170 175  
Glu Tyr Pro Leu Val Asn Val Pro Ser His Arg Gly Leu Thr Cys Asn  
180 185 190  
Arg Ser Ser Thr Arg His His Glu Gln Pro Glu Thr Ser Asn Met Ser  
195 200 205  
Ile Cys Thr Asn Leu Ser Ser Arg Trp Thr Val Phe Gln Ser Ser Ile  
210 215 220  
Phe Gly Ala Phe Val Val Tyr Leu Val Val Leu Leu Ser Val Ala Phe  
225 230 235 240  
Met Cys Trp Asn Met Met Gln Val Leu Met Lys Ser Gln Lys Gly Ser  
245 250 255  
Leu Ala Gly Gly Thr Arg Pro Pro Gln Leu Arg Lys Ser Glu Ser Glu  
260 265 270  
Glu Ser Arg Thr Ala Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile  
275 280 285  
Val Val Thr Leu Ala Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile  
290 295 300  
Met Ala Ala Ala Lys Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg  
305 310 315 320  
Ala Tyr Met Ile Leu Leu Pro Phe Ser Glu Thr Phe Phe Tyr Leu Ser  
325 330 335  
Ser Val Ile Asn Pro Leu Leu Tyr Thr Val Ser Ser Gln Gln Phe Arg  
340 345 350  
Arg Val Phe Val Gln Val Leu Cys Cys Arg Leu Ser Leu Gln His Ala

355	360	365
Asn His Glu Lys Arg Leu Arg Val His Ala His Ser Thr Thr Asp Ser		
370	375	380
Ala Arg Phe Val Gln Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser		
385	390	395
Ser Ala Arg Arg Thr Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Glu		
405	410	415
Ala Glu Pro Gln Ser Lys Ser Gln Ser Leu Ser Leu Glu Ser Leu Glu		
420	425	430
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Gln Glu His Glu Val		
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aaaggatact tgcagaagga ggtgacagac cacatgtga gtttggctt ctggacatc	240
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cagecccgaga cctccaaat gtccatctgt accaaccctt ccageccgtg gaccgtttc	660
cagtcaggca tcttcggcgc ctgcgtggc tacctctgtt ctctgtctc cgtagcttc	720
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<210> 6

<211> 456  
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<213> Mouse

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35 40 45  
Ser Val Thr Ile Arg Val Thr Gln Val Leu Gln Lys Lys Gly Tyr Leu  
50 55 60  
Gln Lys Glu Val Thr Asp His Met Val Ser Leu Ala Cys Ser Asp Ile  
65 70 75 80  
Leu Val Phe Leu Ile Gly Met Pro Met Glu Phe Tyr Ser Ile Ile Trp  
85 90 95  
Asn Pro Leu Thr Thr Pro Ser Tyr Ala Leu Ser Cys Lys Leu His Thr  
100 105 110  
Phe Leu Phe Glu Thr Cys Ser Tyr Ala Thr Leu Leu His Val Leu Thr  
115 120 125  
Leu Ser Phe Glu Arg Tyr Ile Ala Ile Cys His Pro Phe Lys Tyr Lys  
130 135 140  
Ala Val Ser Gly Pro Arg Gln Val Lys Leu Leu Ile Gly Phe Val Trp  
145 150 155 160  
Val Thr Ser Ala Leu Val Ala Leu Pro Leu Leu Phe Ala Met Gly Ile  
165 170 175  
Glu Tyr Pro Leu Val Asn Val Pro Thr His Lys Gly Leu Asn Cys Asn  
180 185 190  
Leu Ser Arg Thr Arg His His Asp Glu Pro Gly Asn Ser Asn Met Ser  
195 200 205  
Ile Cys Thr Asn Leu Ser Asn Arg Trp Glu Val Phe Gln Ser Ser Ile  
210 215 220  
Phe Gly Ala Phe Ala Val Tyr Leu Val Val Leu Ala Ser Val Ala Phe  
225 230 235 240  
Met Cys Trp Asn Met Met Lys Val Leu Met Lys Ser Lys Gln Gly Thr  
245 250 255  
Leu Ala Gly Thr Gly Pro Gln Leu Gln Leu Arg Lys Ser Glu Ser Glu  
260 265 270  
Glu Ser Arg Thr Ala Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile  
275 280 285  
Val Val Thr Leu Ala Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile  
290 295 300  
Met Ala Ala Ala Lys Pro Lys His Asp Trp Thr Arg Thr Tyr Phe Arg  
305 310 315 320  
Ala Tyr Met Ile Leu Leu Pro Phe Ser Asp Thr Phe Phe Tyr Leu Ser  
325 330 335  
Ser Val Val Asn Pro Leu Leu Tyr Asn Val Ser Ser Gln Gln Phe Arg  
340 345 350  
Lys Val Phe Trp Gln Val Leu Cys Cys Arg Leu Thr Leu Gln His Ala  
355 360 365

Asn Gln Glu Lys Arg Gln Arg Ala Arg Phe Ile Ser Thr Lys Asp Ser  
 370 375 380  
 Thr Ser Ser Ala Arg Ser Pro Leu Ile Phe Leu Ala Ser Arg Arg Ser  
 385 390 395 400  
 Asn Ser Ser Ser Arg Arg Thr Asn Lys Val Phe Leu Ser Thr Phe Gln  
 405 410 415  
 Thr Glu Ala Lys Pro Gly Glu Ala Lys Pro Gln Pro Leu Ser Pro Glu  
 420 425 430  
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 Asn Ser Leu Gln Glu Gln Glu Val  
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<210> 7

<211> 1368  
 <212> DNA  
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<400> 7

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aagggtat	tgcagaagga	ggtgacagal	cacatgtca	gtttggcttg	ttcagatatac	240
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gaacctggaa	actccaatat	gtccatctgc	acgaacctct	ccaaaccgtt	ggaggcattc	660
cagtcaggca	tctttggggc	ctttgtgtt	tacctgttgg	tcctggcg	tgtggctt	720
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cctggagagg	ctaagcccc	gcccttgagt	cctgatcac	cacagactgg	ctcagagacc	1320
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<211> 456  
 <212> PRT  
 <213> Rat

<400> 8

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20								25					30		
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35								40					45		
Ser	Val	Thr	Ile	Arg	Val	Thr	Gln	Val	Leu	Gln	Lys	Lys	Gly	Tyr	Leu
50							55					60			
Gln	Lys	Glu	Val	Thr	Asp	His	Met	Ile	Ser	Leu	Ala	Cys	Ser	Asp	Ile
65							70					75			80
Leu	Val	Phe	Leu	Ile	Gly	Met	Pro	Met	Glu	Phe	Tyr	Ser	Ile	Ile	Trp
85								90					95		
Asn	Pro	Leu	Thr	Thr	Pro	Ser	Tyr	Ala	Leu	Ser	Cys	Lys	Leu	His	Thr
100								105					110		

Phe Leu Phe Glu Thr Cys Ser Tyr Ala Thr Leu Leu His Val Leu Thr  
 115 120 125  
 Leu Ser Phe Glu Arg Tyr Ile Ala Ile Cys His Pro Phe Arg Tyr Lys  
 130 135 140  
 Asp Val Ser Gly Pro Cys Gln Val Lys Leu Leu Ile Gly Phe Val Trp  
 145 150 155 160  
 Val Thr Ser Ala Leu Val Ala Leu Pro Leu Leu Phe Ala Met Gly Ile  
 165 170 175  
 Glu Tyr Pro Leu Ala Asn Val Pro Thr His Lys Gly Leu Asn Cys Asn  
 180 185 190  
 Leu Ser Arg Thr Arg His His Asp His Pro Gly Asp Ser Asn Met Ser  
 195 200 205  
 Ile Cys Thr Asn Leu Ser Ser Arg Trp Glu Val Phe Gln Ser Ser Ile  
 210 215 220  
 Phe Gly Ala Phe Ala Val Tyr Leu Val Val Leu Val Ser Val Ala Phe  
 225 230 235 240  
 Met Cys Trp Asn Met Met Lys Val Leu Met Lys Ser Lys Arg Gly Thr  
 245 250 255  
 Leu Ala Gly Thr Gly Pro Gln Leu Gln Leu Arg Lys Ser Glu Ser Glu  
 260 265 270  
 Glu Ser Arg Thr Ala Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile  
 275 280 285  
 Val Val Thr Leu Ala Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile  
 290 295 300  
 Met Ala Ala Ala Lys Pro Lys His Asp Trp Thr Lys Ser Tyr Phe Lys  
 305 310 315 320  
 Ala Tyr Met Ile Leu Leu Pro Phe Ser Asp Thr Phe Phe Tyr Leu Ser  
 325 330 335  
 Ser Val Val Asn Pro Leu Leu Tyr Asn Val Ser Ser Gln Gln Phe Arg  
 340 345 350  
 Lys Val Phe Trp Gln Val Leu Cys Cys Arg Leu Thr Leu Gln His Ala  
 355 360 365  
 Asn Gln Glu Lys Gln Gln Arg Ala Tyr Phe Ser Ser Thr Lys Asn Ser  
 370 375 380  
 Ser Arg Ser Ala Arg Ser Pro Leu Ile Phe Leu Ala Ser Arg Arg Ser  
 385 390 395 400  
 Asn Ser Ser Ser Arg Arg Thr Asn Lys Val Phe Leu Ser Thr Phe Gln  
 405 410 415  
 Ala Glu Ala Lys Pro Leu Glu Gly Glu His Gln Pro Leu Ser Pro Glu  
 420 425 430  
 Ser Pro Gln Thr Gly Ser Glu Thr Lys Pro Ala Gly Ser Ala Thr Glu  
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 Asn Ser Leu Gln Glu Gln Glu Val  
 450 455

<210> 9

<211> 1368  
 <212> DNA  
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<400> 9

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gccacattgc tgcattgtct gaccctcagc ttggagggct acatggccat ttgtcatccc	420
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<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 10

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<210> 11

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 11

tgtggagctt gcaggacaga 20

<210> 12

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 12

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<210> 13

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 13

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<210> 14

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<223> primer

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21